



SEQUENCE LISTING

<110> Tel Aviv University Future Technology Development L.P.
Gazith, Ehud

<120> PEPTIDES ANTIBODIES DIRECTED THEREAGAINST AND METHODS USING SAME
FOR DIAGNOSING AND TREATING AMYLOID-ASSOCIATED DISEASES

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<150> US 10/235,852
<151> 2002-09-06

<150> US 60/392,266
<151> 2002-07-01

<150> US 60/352,578
<151> 2002-07-31

<150> US 60/436,453
<151> 2002-12-27

<150> PCT/IL03/00079
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<151> 2003-06-30

<150> US 60/514,974
<151> 2003-10-29

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<400> 118

Asn Tyr Xaa
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<210> 119
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<400> 119

Asn Tyr Pro
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<210> 120
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<400> 120

Asn Tyr Pro
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Tyr Xaa
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<210> 122
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Pro Tyr
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Tyr Pro
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<210> 124
<211> 6
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<400> 124

Ala Asn Phe Leu Val His
1 5

<210> 125

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<400> 125

Xaa Asn Phe Xaa Val His
1 5

<210> 126
<211> 5
<212> PRT
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<220>
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<400> 126

Ala Asn Phe Leu Val
1 5

<210> 127
<211> 5
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<223> D and L methyl alanine

<400> 127

Xaa Asn Phe Xaa Val
1 5

<210> 128
<211> 3
<212> PRT
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<220>
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<223> D-Stereoisomer

<400> 128

Phe Phe Pro
1

<210> 129
<211> 4
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<400> 129

Xaa Phe Asn Xaa
1

<210> 130
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<222> (1)..(3)
<223> D-Stereoisomer

<400> 130

Phe Asn Pro
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<400> 131

Xaa Asn Phe Xaa
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<210> 132
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<400> 132

Gln Lys Leu Val Phe Phe
1 5

<210> 133
<211> 2
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<223> Synthetic peptide

<400> 133

Tyr Tyr

1

<210> 134

<211> 4

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<220>

<223> Synthetic peptide

<400> 134

Asn Tyr Tyr Pro

1

<210> 135

<211> 3

<212> PRT

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<223> Synthetic peptide

<220>

<221> misc_feature

<222> (3)..(3)

<223> Alpha-aminoisobutyric acid (Aib)

<400> 135

Tyr Tyr Xaa

1

<210> 136

<211> 3

<212> PRT

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<222> (1)..(1)

<223> Alpha-aminoisobutyric acid (Aib)

<400> 136

Xaa Tyr Tyr

1

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<400> 137

Xaa Tyr Tyr Xaa
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<400> 138

Asn Tyr Tyr Pro
1

<210> 139
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<220>
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<400> 139

Pro Tyr Tyr
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<210> 140
<211> 3
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<400> 140

Tyr Tyr Pro
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<210> 141
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<400> 141

Pro Tyr Tyr Pro
1

<210> 142
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<223> D-Stereoisomer

<400> 142

Tyr Tyr
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<210> 143
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<400> 143

Pro Xaa
1

<210> 144
<211> 2
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<400> 144

Phe Pro
1

<210> 145
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Trp Xaa
1

<210> 146
<211> 2
<212> PRT
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<220>

<223> Synthetic peptide

<220>

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<222> (1)..(2)

<223> D-Stereoisomer

<400> 146

Trp Pro

1

<210> 147

<211> 2

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<223> Synthetic peptide

<220>

<221> misc_feature

<222> (1)..(1)

<223> D-Stereoisomer

<400> 147

Phe Pro

1

<210> 148

<211> 2

<212> PRT

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<223> Synthetic peptide

<220>

<221> misc_feature

<222> (2)..(2)

<223> D-Stereoisomer

<400> 148

Pro Phe

1

<210> 149

<211> 3

<212> PRT

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<220>
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<222> (3)..(3)
<223> Alpha-aminoisobutyric acid (Aib)

<400> 149

Cys Trp Xaa
1

<210> 150
<211> 3
<212> PRT
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<220>
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<223> D-Stereoisomer

<220>
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<222> (3)..(3)
<223> Alpha-aminoisobutyric acid (Aib)

<400> 150

Cys Trp Xaa
1

<210> 151
<211> 5
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 151

Asp Ala Asn Lys Ala
1 5

<210> 152
<211> 37
<212> PRT
<213> Artificial sequence

<220>

<223> Rodent IAPP derived amino acid sequence

<400> 152

Lys Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asn Phe Leu
1 5 10 15

Val Arg Ser Ser Asn Asn Leu Gly Pro Val Leu Pro Pro Thr Asn Val
20 25 30

Gly Ser Asn Thr Tyr
35

<210> 153

<211> 37

<212> PRT

<213> Artificial sequence

<220>

<223> Human IAPP derived amino acid sequence

<400> 153

Lys Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asn Phe Leu
1 5 10 15

Val His Ser Ser Asn Asn Phe Gly Ala Ile Leu Ser Ser Thr Asn Val
20 25 30

Gly Ser Asn Thr Tyr
35

<210> 154

<211> 7

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 154

Asn Phe Gly Ser Val Gln Phe
1 5

<210> 155

<211> 8

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 155

Asn Phe Gly Ser Val Gln Phe Val
1 5

<210> 156
<211> 8
<212> PRT
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<220>
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<400> 156

Asn Phe Gly Ser Val Gln Phe Ala
1 5

<210> 157
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<220>
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<222> (4)..(4)
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<400> 157

Xaa Asn Phe Xaa Val His Ser Ser
1 5

<210> 158
<211> 32
<212> PRT
<213> Artificial sequence

<220>
<223> Human Calcitonin derived amino acid sequence

<400> 158

Cys Gly Asn Leu Ser Thr Cys Met Leu Gly Thr Tyr Thr Gln Asp Phe
1 5 10 15

Asn Lys Phe His Thr Phe Pro Gln Thr Ala Ile Gly Val Gly Ala Pro
20 25 30

<210> 159

<211> 4
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 159

Gly Ala Ile Leu
1

<210> 160
<211> 5
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 160

Lys Leu Val Phe Phe
1 5

<210> 161
<211> 7
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 161

Lys Leu Val Phe Phe Ala Glu
1 5

<210> 162
<211> 8
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 162

Asn Phe Gly Ser Val Gln Phe Val
1 5

<210> 163
<211> 7
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 163

Gly Asn Asn Gln Gln Asn Tyr
1 5

<210> 164

<211> 38

<212> PRT

<213> Artificial sequence

<220>

<223> WT hIAPP expressed by the synthetic gene

<400> 164

Met Lys Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Met Phe
1 5 10 15

Leu Val His Ser Ser Asn Asn Phe Gly Ala Ile Leu Ser Ser Thr Asn
20 25 30

Val Gly Ser Asn Thr Tyr
35

<210> 165

<211> 114

<212> DNA

<213> Artificial sequence

<220>

<223> WT hIAPP coding synthetic gene

<400> 165
atgaaatgca acactgccac atgtgcaacc cagcgcctgg caaatttttt agttcattcc 60
agcaacaact ttggtgccat tctctcatct accaacgtgg gatccaatac atat 114

<210> 166

<211> 114

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Human IAPP coding sequence

<400> 166
atgaaatgca acaccgcgac ctgcgcgacc cagcgcctgg cgaactttct ggtgcatagc 60
agcaacaact ttggcgcat tctgagcagc accaacgtgg gcagcaacac ctat 114

<210> 167

<211> 12

<212> DNA

<213> Artificial sequence
 <220>
 <223> Factor Xa cleavage site coding sequence positioned downstream to the MBP tag in pMAL-c2X IAPP vector
 <400> 167
 atcgagggta gg 12
 <210> 168
 <211> 30
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> NCOI restriction site followed by a 6XHis tag coding sequence and a V8 protease cleavage site cloned downstream to the MBP tag in the pMAL-c2X IAPP vector
 <400> 168
 accatgggcc atcaccatca ccatcacgaa 30
 <210> 169
 <211> 10
 <212> PRT
 <213> Artificial sequence
 <220>
 <223> Synthetic peptide
 <400> 169
 Thr Gln Arg Leu Ala Asn Phe Leu Val Glu
 1 5 10
 <210> 170
 <211> 10
 <212> PRT
 <213> Artificial sequence
 <220>
 <223> Synthetic peptide
 <400> 170
 Gln Arg Leu Ala Asn Phe Leu Val Glu Ser
 1 5 10
 <210> 171
 <211> 10
 <212> PRT
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Arg Leu Ala Asn Phe Leu Val Glu Ser Ser
1 5 10

<210> 172
<211> 10
<212> PRT
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<220>
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<400> 172

Leu Ala Asn Phe Leu Val Glu Ser Ser Asn
1 5 10

<210> 173
<211> 10
<212> PRT
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<220>
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<400> 173

Ala Asn Phe Leu Val Glu Ser Ser Asn Asn
1 5 10

<210> 174
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 174

Asn Phe Leu Val Glu Ser Ser Asn Asn Phe
1 5 10

<210> 175
<211> 10
<212> PRT
<213> Artificial sequence

<220>
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<400> 175

Phe Leu Val Glu Ser Ser Asn Asn Phe Gly
1 5 10

<210> 176
<211> 10

<212> PRT
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<220>
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<400> 176

Leu Val Glu Ser Ser Asn Asn Phe Gly Ala
1 5 10

<210> 177
<211> 10
<212> PRT
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<220>
<223> Synthetic peptide

<400> 177

Val Glu Ser Ser Asn Asn Phe Gly Ala Ile
1 5 10

<210> 178
<211> 10
<212> PRT
<213> Artificial sequence

<220>
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<400> 178

Glu Ser Ser Asn Asn Phe Gly Ala Ile Leu
1 5 10

<210> 179
<211> 32
<212> PRT
<213> Artificial sequence

<220>
<223> Partial amino acid sequence of human Calcitonin

<400> 179

Cys Gly Asn Leu Ser Thr Cys Met Leu Gly Thr Tyr Thr Gln Asp Phe
1 5 10 15

Asn Lys Phe His Thr Phe Pro Gln Thr Ala Ile Gly Val Gly Ala Pro
20 25 30

<210> 180
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<212> PRT
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<220>
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pMAL-c2X IAPP vector

<400> 180

Ile Glu Gly Arg
1

<210> 181
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> Amino acid sequence coded by the NCOI restriction site followed
by a 6XHis tag and a V8 protease cleavage site.

<400> 181

Thr Met Gly His His His His His Glu
1 5 10